Kirill Ryzhikov

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Experience

Deep Learning Researcher November 2021 – Present
Myna Labs *SF, USA*
- Developing several synthetic content generation pipelines
- Researching ultra fast, high quality deepfake techniques, implementing and benchmarking SOTA pipelines
- Researching latest papers in several fields of deep learning
- Using PyTorch, CoreML, Swift

Part-time CV engineer June 2021 – November 2021
Ex-Human, Inc. *SF, USA*
- Participating in new generation AI-friend service development
- Developing end-2-end visual chatting pipeline
- Used C++, PyTorch, CUDA, Docker, Redis

Research and Development engineer, Middle March 2021 – November 2021
Tinkoff, AI Technologies Center *Moscow, RU*
- Created platform for talking heads and deep-fake generation for commercial use cases, that enabled creation of 2 publicly available talking heads projects
- Implemented real-time video from speech generation algorithm for 2d photo-realistic and 3d generation
- Used PyTorch, CUDA, Docker, Reddis, FastAPI

ML Researcher, Junior March 2020 – March2021
Tinkoff, AI Technologies Center *Moscow, RU*
- Performed research on talking heads generation for Russian speaker
- Created Russian audio-visual dataset from different sources, using specially created pipeline
- Developed MVP demo of talking heads generation from speech
- Wrote the publication for AI conference
- Used PyTorch, Docker

Education

Moscow State University Moscow, Russia
Bachelor of Computational Mathematics and Cybernetics *Aug. 2019 – Present*
Department of mathematical statistics, Financial mathematics laboratory *Aug. 2021 – Present*

Center of Mathematical Finances Moscow, Russia
Assistant at courses: Options Pricing, HFT strategy development *Sep. 2021 – Dec. 2021*

Publications

63 All Russian science conference at MIPT Moscow, RU, 2020
Building facial expressions of a person from the recording of his speech *Diploma for best presentation in AI section*
- Created architecture for facial key points sequence generation from speech
- Researched application of Harmonic Convolutions in Speech Embedding task
- Researched application of AutoVC like architectures for speech splitting to style and content
- Used PyTorch, Docker

Technical Skills

Languages: Python, C(C99), C++17
DBMS: MongoDB
Frameworks: PyTorch, Tensorflow, FastAPI, Flask, Telebot
Developer Tools: Git, Docker,Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Vim, bash
Libraries: pandas, NumPy, Matplotlib, Pytorch-Lightning

Other experiens

ML/DL mentor Dec 2020 – Present
Tinkoff.Generation *Moscow, RU*

- Conducting lectures about DL basics in Computer Vision, Media generation
- Checking homeworks, preparing quizes

CROC-It-solution school | *Android, Java, Firebase* | 2018

- 1-st place at social apps sections

Sber.Hack | *Andriod, Java, Python, Numpy*| 2018

- 2-nd place overall with project for detecting epilepsy attack Epi.Detect

Acadoton | *Android, Java, Python, Numpy, OpenCV, Arduino*| 2018

- 4-nd place overall with project of smart lock for easy flat sharing or rent

Hack.Moscow | *Andriod, Java, Python, Numpy*| 2018

- 2nd place in Healthcare track with Stroke.Detect app for strokes detection